WARMING and VENTILATING.—COTTAM and HALLEN, 8, Windsor-street, Oxford-street, having had in my yards experiments, and having warmed by the air system of hot water upwards of FOUR THOUSAND BUILDINGS, consisting of Churches, Private Mansions, Lunatic Asylums, Halls and each respects, Unitarian, Conservatories, Forcing-houses, &c., can with confidence recommend their system, which, by the various improvements they have made has PERFECTED THE CONSTRUCTION AND ECONOMIZED THE EXPENSE. Greenhouses, Conservatories, Verandahs, constructed entirely of iron or wood, and of iron and wood combined. Estimates upon application.

COTTAM and HALLEN, Engineers and Iron-founders, 8, Windsor-street, Oxford-street, London.

LOSH, WILSON, and BELL, NEWCASTLE-ON-TYNE, Manufacturers of Cast Iron, Railway Bars Forge and Engine Work, Cast-iron Girders, and STEWART'S PATENT CAST-IRON GAS and WATER PIPES. Office, No. 7, Bow-lane, London.

CAST-IRON PIPES, IRON WORK FOR OVENS, &c. RAIN PIPES, &c.—F. A. TIDDEMAN and Co. St. Ann's Wharf, Earl-street, City, near Blackfriars-bridge, keep a large stock of Rain Pipes, Heads, Shoes, Elbows, &c., half round and O. G. Gutters, Socket Pipes for Water or Gas, Flanch Pipes, Rush Weights, and other Castings; Iron Work for Bakers (ovens of every description), Stoves complete to be had in sets or in parts.—Prices equal to all competition. Contracts taken to any extent. Goods landed. A powerful crane.

CHURCH BELLS of the highest quality of tone and finish, at 1s per lb. Peals of bells rehung and augmented. House bells, with turned edges and wrought-iron clappers, as used for the Queen at proportionately reduced prices.—Apply to BARRETT and OSBORNE, Bishopsgate Foundry, Skinner-street, London.

CHURCH and TURRET BELLS cast to any weight, and tuned. Ship plantation, house, sheep, cup, and clock bells of any size.

MUSICAL HAND BELLS

Tuned to the chromatic scale, with improved clappers, and rung on a new system, which gives superior tone and facility for ringing.

Memorial Brasses, Pulpit Lights, and Brackets, &c.

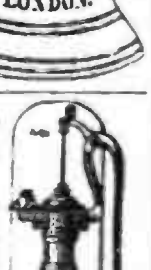
Old Bells recast or taken in exchange.

J. WARNER & SONS, BELL FOUNDERS, ENGINEERS, &c.

TO BUILDERS AND PLUMBERS.

The attention of the Trade is called to

JOHN WARNER & SONS' PATENT VIBRATING STANDARD PUMP,



which is recommended for the simplicity of its construction, and the ease with which it works.

By the introduction of the vibrating standard, the cumbrous carriage and expensive slings and guides are unnecessary, rendering the price considerably less than pumps made on the old plan.

Beer and Water Engines for raising fluids from a depth not exceeding 28 feet; also, Garden Engines constructed on the same principle.

JOHN WARNER & SONS, 8, Cheapside, Jewin-street, London, Manufacturers and Patentees.

THE GWYNNE PUMP, for Mines, Ships, Dredgers Works, Steam and Locomotive Engines, Waterworks, and every description of employment in which power and efficiency are sought to be obtained with economy, and a general applicability to all circumstances. This Pump, which is acknowledged to be superior to any hitherto employed, is supplied by MR. JOHN GWYNNE, under guarantee against the infringement of any kindred rights the holders of obsolete patents. Orders addressed to No. 1, Agar-street, Strand, London, will receive immediate attention. Local peculiarities of situation, &c. provided for by special arrangements. Testimonials forwarded to parties requiring them.

ARTESIAN WELLS, Boring for Water, Sinking Shafts, &c. The Nobility, Gentry, Water Companies, Towns, Poor-law Unions, Public Bodies, Brewers, Distillers, Paper-makers, Manufacturers of every description, and others requiring WATER, may be SUPPLIED with any quantity by DAVID ORMESLEY, Civil Engineer, and patentee of boring tools, 10, Cumming-street, Pentonville, London, who, having had upwards of twenty years' experience, is enabled to give the most satisfactory and highly respectable references. Pumps and machinery of every description for raising water from deep wells, boring tools with suitable pipes for exportation, with instructions. Men and tools supplied to bore for railroads, minerals, &c.

A SAVING of TIME and MATERIALS with solidity of building

NATHAN DOUGHTY PATENT PORTABLE STEAM-ENGINES of 3, 5, 7, 9, and 6-horse power, for grinding mortar, raising building materials, driving piles, circular saws, pumps, &c., 68, Albert-street, Manchester.

TESTIMONIAL

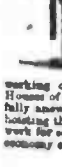
from Charles Barry, Esq.:—

9, Great George-street, Westminster, London, Oct. 27, 1858.

Mr. Nathan Gough.

Sir,—I have, for Mr. Barry, the pleasure of replying to your request of the 4th inst., for a testimonial of the working of three steam-engines you have supplied to the New Houses of Parliament at Westminster, saying that they have fully answered the purposes for which they were required, viz., hoisting the building materials; and two of the three have been at work for some years with very little repairs, and with considerable economy of fuel.—I am, Sir, your obedient servant,

Per pro. CHARLES BARRY, ALFRED MEESON.



GREAT EXHIBITION, Class 7, No. 186, GREEN'S REGISTERED WIREGUARD,

is the cheapest and most effective article for the cure of SMOKY CHIMNEYS caused by the wind, and the only one that can be obtained with the common meshing to the ordinary grooving of the chimney Pots, according to size from 6s. to 8s. 6d. Apply to ISAAC GREEN, 3, Victoria-place, Pimlico-road, 98, Pancras Church, Buston-square, London. N.B. A month's trial allowed; if not successful, money returned.

TO ARCHITECTS, BUILDERS, &c.

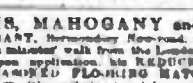
ALL descriptions of TERRA COTTA, CEMENT, and PLASTER CASTINGS, executed in a first-rate manner, on reasonable terms, by J. HERBERT and SON, Modellers, &c. 48, Parker-street, Drury-lane. A splendid assortment of Corinthian, Ionic, and other Capitals; Centre Flowers, Balusters, Trusses, &c.; Elizabethan and other Chimney Shafts.

REDUCED PRICES.—EDWARD SIMMS (late William Upcroft, of Wilton-road, Pimlico Basin, begs to acquaint Builders and the Trade that he has now on hand, at his Manufactory (the first of its kind ever established), a very large Assortment of Dry and Well-seasoned OAK and DEAL PLANED PLANKING, BOARDS and MATCH BOARDING of all sorts, from ½ inch to 4 inch thick, and to a parallel width and thickness, and at greatly Reduced Prices. Also, Timber, Deals, Oak, Planks, Scantlings, Sash Sills, Mouldings prepared by Machinery, Laths, &c.—Apply at E. SIMMS'S late W. Cleave's Flooring Manufactory, Wilton-road, Pimlico Basin.

T. ADAMS, MAHOGANY and TIMBER MERCHANT, Hermondsey New-road, near the Brick-lane Arms, ten minutes' walk from the London Docks, Shadwell, will forward, upon application, his REDUCED LIST of the PRICES for MEASURED PLANKING MATCHED BOARD, Deals, and Timber, either whole or cut into any quantities and condition, &c. Also, his drawing of his Patterns of MOULDINGS, on receipt of two postage stamps.—T. A. continues to offer all the advantages as stated in his previous advertisements.

Pimlico Depôt, South Wharf, South place.

LATHS.—J. and E. KNIGHT beg to inform Builders and others they are now selling Laths of the best quality at 3s. per load, per 10 bundles, every bundle to measure, six rods and running feet, warranted to cover four yards and a half. Wine coopers' and other Laths made to order on the shortest notice on the lowest possible terms.



MUIR'S PATENT — PLANING MACHINE

SAW MILLS, GILLINGHAM-STREET, PIMLICO.

TIMBER of any size, PLANKS, DEALS, and BATTENS, &c., sawn on the most approved principle; Boarding, &c., Planed, matched, and grooved, by Muir's Patent Machinery. The Mills have all the advantages of navigation and water-carriage, being connected with the Thames by the Grosvenor Canal. Goods fetched from the docks, and carted home free of charge.

Address to HENRY SOUTHAM, Saw Mills, Gillingham-street, Pimlico.

N.B. Estimates given for flooring and Planing.

THE GENERAL WOOD-CUTTING COMPANY, TIMBER WHARF, SAWING, PLANING, AND MOULDING MILLS, Belvedere-road, Lambeth, near Waterloo-bridge,

are prepared to supply timber and deals, &c., cut and sawn, to any extent, at the current prices of the day. They keep a large stock of WELL-SEASONED FLOORING and MATCH BOARDS, which, being manufactured by themselves, they offer at the lowest remunerating profits. Buyers of timber, &c., from the Company will find their extensive saw mills a convenience for the immediate conversion of their purchases to any purpose which may suit them.

The Company has leave to call the attention of the trade to their NEW MOULDING LIST, the largest ever published, and to state that, in addition to the numerous patterns therein, the machines their machinery enables them to execute every description of mouldings from drawings, &c., with an accuracy and expedition which must insure satisfaction.

The moulding list, containing nearly 300 diagrams, with prices attached, may be had at the mills, or shall be forwarded on receipt of six postage stamps (the amount of the postage thereon).

N.B.—The Company (without previous preparation) manufactured and delivered to the Great Exhibition fifty statute miles of mach boards within ten days after receiving Messrs. Fox, Henderson, and Co.'s order, which these gentlemen have certified, and that the work was executed to their entire satisfaction.

NOTICE.—SAW-MILLS.—Commercial-road, Lambeth, between Blackfriars and Waterloo Bridges.—T. F. ALLCOCK, not being a Dealer in Deals or Timber, respectfully announces to the Trade that his extensive Works of the most improved Sawing and Planing Machinery, continues in full operation on Commercial Wharf only, offering great advantages to large consumers. T. F. ALLCOCK returns his best thanks for the liberal patronage received for many years. Country and London orders punctually attended to and cards of prices forwarded instanter.

Apply at the Offices at the Works as above.

MOULDINGS BY MACHINERY.—ARCHBUTT and ATKINSON have just published a new and enlarged list, containing nearly 300 diagrams of Mouldings, with prices attached, lower than any ever yet offered. A copy will be forwarded on receipt of four penny postage stamps.

A head A. and A. are now on sale FLOORING PREPARED and PLANED to a parallel width and thickness by improved patent machinery, at greatly REDUCED PRICES, as under:—

	Per square			Per square
	s.	d.		s. d.
½-inch Yellow	14	0	½-inch White	15 6
¾-inch ditto	14	6	¾-inch ditto	16 6
1-inch ditto	15	9	1-inch ditto	17 6

100 feet run of ½-inch boards to the square, and 120 feet run of 7-inch boards to ditto.

FOUR-PANELLED DOORS, per foot superficial:—

Square.	Moulded one side.	Moulded both sides
1½-inch	4½d.	5d.	5½d.
1¾-inch	5d.	5½d.	6d.
2-inch	7d.	8d.	8½d.

TERMS CASH. Saint Pancras Sawing, Planing, and Moulding Mills, Cambridge-street, 162, Saint Pancras-road, close to the Goods Terminus of the Great Northern Railway.

CHARLES WM. WATERLOW, Manufacturer of Seeds and Frames, and Joiner to the Trade, 120, Bunhill-row, Finsbury-square.

Well seasoned materials, superior workmanship, lowest prices.

Upwards of FOUR HUNDRED DESIGNS and a large variety of Seeds and Frames always on sale.

Glazed goods securely packed for the country. Frames struck usual trade in any quantity.

N.B. This Establishment is worth the notice of all engaged in building.

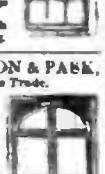
NOTICE of REMOVAL.—JOHNSON & PASK, Sash, Shop Front, and Door Makers to the Trade,

beg to inform their Customers and the Public generally, that they have removed to more extensive premises in

BAKER-STREET, BAGNIGGE WELLS-ROAD,

where they have convenient for carrying on a larger business.

N.B. By forwarding a postage stamp, a full list of prices may be had by return of post.



WINDOW BLINDS.—TYLOR and PACE, Window Blind Manufacturers, 213, Oxford-street adjoining Hanover-square, and 3, Queen-street, Cheapside, London, submit the following PRICES of WINDOW BLINDS, which they can recommend as being made in the best manner throughout, viz.:—per square foot, 8d.; pea holland blinds, on rollers, 6d.; lead ditto, on spring rollers, 9d.; patent wire blinds to mahogany frames, 1s. 6d.; perforated zinc blinds, in ditto, 1s. 6d.; cast-tile blinds of striped cloth in case, 1s. 9d. Transparent blinds in great variety. Engravings, with prices and directions to builders and the trade, forwarded on application, post free.

DAMP WALLS.—NEW PATENT PAINT, as supplied on the THAMES TUNNEL, constructed effective and permanent inside or out, in quantities to finish 8 square yards for 1l.

PATENT LIQUID CEMENT for the fronts of houses, for beauty pre-eminent, giving the appearance of fine cut stone, and only one-sixth the cost of Oil Paint. In casks of 1, 2, and 3 cwt. at 5s. the cwt. and 6d. each.

PATENT MINERAL ZINC PAINTS invaluable for cheapness, beauty, and permanence, ready for use. White Stone and Lead, 5s. Greens and Blues, 6s. per gallon.

BLACK MINERAL PAINT, very permanent, half the usual price; only 3s. per Gallon.

NEW PATENT COLOUR for inside work, may be applied on Wood, Brown, Cement, or over Oil Paint. No smell, and will dry in an hour. In casks of 1 cwt. at 14s.

G. BELL and CO., Steam Mills, 8, Wellington-street, Gosswell-street.

DUBBUCK'S PATENT WHITE ZINC PAINT.—The PERMANENT WHITE of the Ancients, by its continuous hitherto restricted to the use of the artist, is now offered at the price of the ordinary white lead paint.

Four years' Stone the proprietors planned their manufacture on a large scale, and put this elegant Paint in competition with White Lead.

Its confessed superiority over every other paint hitherto known brought lowered various imitations.

Proved to foster production, Hopcraft's made from pure ores, containing small, permanent, and other deleterious material, either injurious to health, deficient in body, and reducing the preservative properties for which the original paint stands pre-eminent.

In justice to the proprietors these should not be confounded with the original, even though sold under the pretence, true it is all the same.

Hopcraft's Paint is entirely free from any injurious properties whatever, is a healthful in the manufacture, healthful in use, and healthful to occupants of rooms newly painted with it.

As a guard to the purchaser against the substitution of the inferior paints, each cask is stamped

"HUBBUCK, LONDON, PATENT,"

and if the cask has not been so marked, the reason is obvious.

A Circular with full particulars may be had of THOMAS HUBBUCK and SON, Colour Manufacturers, opposite the London Docks.

THE TWO GREATEST IMPROVEMENTS IN BUILDING.

THE SHEET ZINC from the VIEILLE MONTAGNE COMPANY is already so well appreciated in Great Britain for its superior quality, cheapness, and great durability for roofing purposes, &c. that we need only mention that during last year above several thousand tons of zinc have been used for COVERING BUILDINGS, SHEATHING SHIPS, and other manufacturing purposes.

THE PATENT WHITE ZINC PAINT was first brought under public notice in England a few years ago by the Prussian, the Vieille Montagne Zinc Mining Company. The superiority of this paint over white lead is now so universally established, that it will suffice to state that the Admiralty and the most eminent professional men have adopted it ever since its introduction in the market. When used in an unadulterated state, its chief advantages are cheapness, brilliancy of colours, hardness, durability, universal habits by local air or sea, and not injurious to health.—For further particulars apply to Mr. F. P. SCHMOLZ, General Agent to the Vieille Montagne Company, 13, Manchester-buildings, Westminster.

THE WASHINGTON CHEMICAL COMPANY, NEWCASTLE-ON-TYNE, Manufacturers of

PATTINSON'S OXICHLORIDE of LEAD.—The Washington Chemical Company having, during the last year, established a Manufactory of Pattinson's Oxichloride of Lead on a large scale, and being able to supply it with regularity, and to execute orders without delay, now proceed to bring this new and valuable preservative of Lead before their friends and the public, quite sure that it will rank, in the present day, before most, because it is new, and that if judged by its merits, it must make its way, and finally take its place as one of the important manufactures of this country.

Pattinson's Oxichloride of Lead is a chemical combination of one equivalent of Chloride of Lead, and one equivalent of Oxide of Lead; it being well known that a mixture of the two, and a combination of one equivalent of Oxide of Lead, and one equivalent of Carbonate of Carbonic Acid, constitutes what is called in the usual language, Carbonate of Lead. Now there is no reason to conclude that Carbonate of Lead is the only compound of lead valuable as a paint, and still less that it should be the best compounded of lead for that purpose. It is proved of fact it is not so. For the newly-discovered Oxichloride is most, if not in all the cases by far superior; its colour is brilliantly white, and in a number of cases it has been tried against the best White Lead that could be obtained, and after a period of upwards of two years it has been found to be the more durable, considerably better than the lead against which it was tried.

But the chief and by far the most important advantage it possesses in its remarkable and very decided superiority of Body; by which term the power of covering surface well and extensively, is understood among Painters. The attention of the discoverers was at a very early period drawn to this property, and from the time that the Washington Chemical Company have had abundant opportunities of placing its superiority in this important particular beyond all doubt. They have themselves performed a number of experiments, and have also caused a number of experiments to be performed, in the large way, by various practical men, to ascertain accurately its covering power as compared with fine best White Lead, and they now state the presentations to be as 60 to 100, that is, 60 lbs. of Oxichloride paint will cover as much surface as 100 lbs. of the best White Lead, the covering of each being in the same proportion; besides this, the coating is thicker and more permanent, both in and out of doors, as the Oxichloride dries into a hard, tenacious body, much more like an Enamel than Paint.

In using the Oxichloride, no difference in the materials with which it is mixed is required. Oil and Turpentine being employed as usual both for work technically called Painting and for work that is to be varnished. For the use of Paper Hangers and Leather Paper-ers, the Oxichloride is found to be peculiarly suitable. The Washington Chemical Company have consequently their newly discovered substance to the notice of consumers, both on account of its economy, and its intrinsic good qualities as a paint.

OFFICE IN LONDON.—Mr. R. POOLE, No. 7, Bow-lane, Office of the Washington Chemical Company, 8, Over-street, Newcastle-on-Tyne, January 1, 1859.

FIRE-PROOF CONSTRUCTION.—FOX and BARRETT'S PATENT.—The great importance of fire-proof construction is shown by the recently published returns of fires in London during the past year, by which it appears that there is a considerable increase as compared with the five years, the number annually exceeding 1,000, or an average of three per day.

This result affords strong corroboration of a fact stated upon high authority, THAT NO BUILDING IN WHICH TIMBER JOISTS ARE USED IS PRACTICALLY SECURE FROM THE DANGER OF FIRE; and when to this fact it is added that timber is also liable to dry-rot and the attacks of destructive vermin, for which it affords a ready harbour, the manifold arising from its extensive use will be sufficiently apparent.

It becomes then, worth the attention of those who are interested in building, to inquire whether materials or combinations cannot be substituted for timber in the construction of floors, &c., without incurring additional cost; and attention is invited to a number of buildings of all classes, either finished or in course of erection, upon the above improved system, in which joists, either of rolled or cast-iron, are substituted for timber, together with a solid arrangement of concrete, adapted to receive a finished surface of floor or roof of any kind.

Among the buildings at present in progress in London on this system is the new QUEEN HOSPITAL, an extensive range, providing accommodation for 300 additional beds; and for buildings of this description and warehouses, as well as for PRIVATE DWELLING-HOUSES, OFFICES, WAREHOUSES, &c. it possesses very great advantages.

Detailed arrangements of the system, estimates, and all further information, may be obtained on application to the Proprietor of the patent,

MR. BARRETT, late Fox and Barrett, 13, York-buildings, Adelphi,

whose offices form part of a building erected on this principle, and where specimens of the rolled iron joists may be seen.

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